

We claim:

- Sub A1*
1. A display page processing device, comprising:
at least one input device capable of accepting a user input;
a processor communicating with said at least one input device and capable of communicating with a display device; and
a memory including a display pages storage area, a most-recently-visited pages storage area, a most-likely-to-be-visited pages storage area, and a number-of-pages-to-be-loaded variable storage area;
wherein said processor uses said most-recently-visited pages storage area, said most-likely-to-be-visited pages storage area, and said number-of-pages-to-be-loaded variable storage area in order to fetch and/or store two or more display pages to said display pages storage area in response to a single user input without waiting for a user to select additional pages to view on said display device.
 2. The device of claim 1, wherein said display page processing device further includes a processed image storage and wherein a previously processed and viewed display page is stored in said processed image storage after it is bumped from said display pages storage area.
 3. The device of claim 1, wherein said memory further includes a raw image storage area and said memory and said processor are both located in a common display page processing device.

4. The device of claim 1, wherein said display page processing device further includes a communication interface and wherein said display page processing device is capable of obtaining raw image data using said communication interface.

5. The device of claim 1, wherein said memory further includes an image decompression routine storage area and wherein said processor uses an image decompression routine to decompress a display page before loading said display page to said display pages storage area.

6. The device of claim 1, wherein said memory further includes a user-settable predetermined image resolution variable storage area and an image scaling routine storage area, and wherein said processor uses an image scaling routine to set an image resolution of a display page to a predetermined image resolution variable.

7. The device of claim 1, wherein said most-recently-visited pages storage area stores a predetermined number of recently visited display page numbers.

8. The device of claim 1, wherein a page number of a currently viewed page is stored to said most-recently-visited pages storage area.

9. The device of claim 1, wherein said most-likely-to-be-visited pages storage area stores a predetermined number of predicted display page numbers.

10. The device of claim 1, wherein said number-of-pages-to-be-loaded variable storage area is user-settable.

11. The device of claim 1, wherein said most-recently-visited pages storage area stores a user-defined number of recently visited display pages.

12. A computer-implemented page display method, comprising the steps of:
obtaining a predetermined number-of-pages-to-be-loaded variable;
obtaining stored most-recently-visited pages information;
obtaining stored most-likely-to-be-visited pages information;
pre-fetching a predetermined number of display pages as set by said predetermined number-of-pages-to-be-loaded variable, with said predetermined number of display pages being fetched based on said most-recently-visited pages information and on said most-likely-to-be-visited pages information;
decompressing said predetermined number of display pages; and
scaling said predetermined number of display pages to a predetermined image resolution.

13. The method of claim 12, wherein the pre-fetching step further comprises fetching said predetermined number of display pages from a raw image storage area.

14. The method of claim 12, further comprising the preliminary step of storing a predetermined number of recently visited display page numbers to said most-recently-visited pages information.

15. The method of claim 12, further comprising the step of storing a page number of a currently viewed page to said most-recently-visited pages information.

16. The method of claim 12, further comprising the preliminary step of storing a predetermined number of predicted display page numbers to said most-likely-to-be-visited pages information.

17. The method of claim 12, further comprising the step of accepting a user input that selects said predetermined image resolution.

18. The method of claim 12, further comprising the step of accepting a user input that sets said predetermined number-of-pages-to-be-loaded variable.

19. The method of claim 12, further comprising the steps of:
accepting a user input that designates a next display page;
comparing said next display page to said predetermined number of display pages; and
displaying said next display page if said next display page is in said predetermined number of display pages.

20. The method of claim 12, further comprising the step of storing said predetermined number of display pages to a display pages storage area after the decompressing and scaling steps.

21. A computer-implemented page display method, comprising the steps of:
obtaining a predetermined number-of-pages-to-be-loaded variable;
obtaining stored most-recently-visited pages information;
obtaining stored most-likely-to-be-visited pages information;
obtaining a predetermined number of display pages as set by said predetermined number-of-pages-to-be-loaded variable, with said predetermined number of display pages being fetched based on said most-recently-visited pages information and on said most-likely-to-be-visited pages information;
decompressing said predetermined number of display pages;
scaling said predetermined number of display pages to a predetermined image resolution; and
storing said predetermined number of display pages to a display pages storage area.

22. The method of claim 21, further comprising the preliminary step of storing a predetermined number of recently visited display page numbers to said most-recently-visited pages information.

23. The method of claim 21, further comprising the step of storing a page number of a currently viewed page to said most-recently-visited pages information.

24. The method of claim 21, further comprising the preliminary step of storing a predetermined number of predicted display page numbers to said most-likely-to-be-visited pages information.

25. The method of claim 21, further comprising the step of accepting a user input that selects said predetermined image resolution.

26. The method of claim 21, further comprising the step of accepting a user input that sets said predetermined number-of-pages-to-be-loaded variable.

27. The method of claim 21, further comprising the steps of:
accepting a user input that designates a next display page;
comparing said next display page to said predetermined number of display
pages; and
displaying said next display page if said next display page is in said
predetermined number of display pages.

28. The method of claim 21, further comprising the step of storing a previously processed and viewed display page in a processed image storage area after said previously processed and viewed display page is bumped from said display pages storage area.

29. The method of claim 21, wherein the step of obtaining said predetermined number of display pages further comprises pre-fetching said predetermined number of display pages from a raw image storage area.

30. A computer-implemented page display method, comprising the steps of:
obtaining a predetermined number-of-pages-to-be-loaded variable;
obtaining stored most-recently-visited pages information;
obtaining stored most-likely-to-be-visited pages information;
pre-fetching a predetermined number of display pages as set by said predetermined number-of-pages-to-be-loaded information, with said predetermined number of display pages being fetched based on said most-recently-visited pages information and on said most-likely-to-be-visited pages information;
decompressing said predetermined number of display pages;
scaling said predetermined number of display pages to a predetermined image resolution; and
storing said predetermined number of display pages to a display pages storage area.

31. The method of claim 30, wherein the pre-fetching step further comprises fetching said predetermined number of display pages from a raw image storage area.

32. The method of claim 30, further comprising the preliminary step of storing a predetermined number of recently visited display page numbers to said most-recently-visited pages information.

33. The method of claim 30, further comprising the step of storing a page number of a currently viewed page to said most-recently-visited pages information.

34. The method of claim 30, further comprising the preliminary step of storing a predetermined number of predicted display page numbers to said most-likely-to-be-visited pages information.

35. The method of claim 30, further comprising the step of accepting a user input that selects said predetermined image resolution.

36. The method of claim 30, further comprising the step of accepting a user input that sets said predetermined number-of-pages-to-be-loaded variable.

37. The method of claim 30, further comprising the steps of:
accepting a user input that designates a next display page;
comparing said next display page to said predetermined number of display pages; and
displaying said next display page if said next display page is in said predetermined number of display pages.

38. The method of claim 30, further comprising the step of storing a previously processed and viewed display page in a processed image storage area after said previously processed and viewed display page is bumped from said display pages storage area.